

⑨ 2009年10月

OMRON

FZ-LT-DF□□DR
Model FZ-LT-PL□□DR
FZ-LT-AD□□DR

Accessories for Direct Ring-type Illumination

INSTRUCTION SHEET

Thank you for selecting OMRON product. This sheet primarily describes precautions required in installing and operating the product.

Before operating the product, read the sheet thoroughly to acquire sufficient knowledge of the product. For your convenience, keep the sheet at your disposal.



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PRECAUTIONS ON SAFETY

● Meanings of Signal Words

	WARNING
Indicates a potentially hazardous situation which, if not avoided, will result in minor or moderate injury, or may result in serious injury or death. Additionally there may be significant property damage.	

	CAUTION
Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury or in property damage.	

● Alert statements

	WARNING
To ensure safety, do not use this product for direct or indirect detection of data from human body. Do not use this product as a sensing device for the protection of the human body.	
Since the illumination combined with this product emits a visible light, that may have an adverse effect on the eyes. Do not stare directly into the light emitted from the LED. If the subject has a specular reflective surface, take care not to allow reflected light enter your eyes.	

	CAUTION
Since the illumination combined with this product is extremely hot, beware of danger of burns.Do not touch the case while the LED is ON or immediately after the power is turned OFF.	

PRECAUTIONS FOR SAFE USE

Please observe the following precautions to prevent failure to operate, malfunctions, or undesirable effects on product performance.

1. Installation Location

Do not install the product in locations subjected to the following conditions:

- Ambient temperature outside the rating
- Rapid temperature fluctuations (causing condensation)
- Relative humidity outside the range of 35 to 85%
- Presence of corrosive or flammable gases
- Presence of dust, salt, or iron particles
- Direct vibration or shock
- Reflection of intense light (such as other laser beams or electric arc-weldingmachines)
- Direct sunlight or near heaters
- Water, oil, or chemical fumes or spray
- Strong magnetic or electric field

Tighten all screws securely during installation.

Fastening torque M2:0.15 N·m M3:0.54 N·m

2. Other Precautions

- Do not attempt to disassemble, repair, or modify the Illumination.
- If you notice any abnormality in the Illumination, stop using it immediately, turn OFF the power supply, and contact your OMRON sales representative.
- When disposing of the Illumination, dispose of it as industrial waste.

PRECAUTIONS FOR CORRECT USE

Observe the following precautions to prevent the product from malfunctioning, becoming inoperable, or the performance and/or the device from being adversely affected:

1. Cleaning

- Do not use thinners, benzene, acetone, kerosene to clean the Product.
- Wipe off stubborn stains carefully with a piece of soft cloth that has been wetted with a trace quantity of alcohol.

2. Static electricity

LEDs are used for the illumination. LEDs are easily damaged by static electricity. A grounded wrist strap should thus be used when installing or conducting maintenance on the Illumination.

■Application

This product is a Diffusion Plate for Ring-type Illumination FZ-LTW□□DR series.

■General Specifications

Type (Adaptor)	Agreement diffusion board	Agreement Polarizing plate	Agreement Illumination
FZ-LT-AD50DR	FZ-LT-DF50DR	FZ-LT-PL50DR	FZ-LTW50DR
FZ-LT-AD31DR	FZ-LT-DF31DR	FZ-LT-PL31DR	FZ-LTW31DR

■General Specifications

Item	Diffusion board	Polarizing plate	Adaptor
Model	FZ-LT-DF50DR FZ-LT-DF31DR	FZ-LT-PL50DR FZ-LT-PL31DR	FZ-LT-AD50DR FZ-LT-AD31DR
Ambient Temperature	Operating: 0 to 50°C(with no icing or condensation) Storage : -25 to +60°C(with no icing or condensation)		
Ambient humidity	Operation and storage: 35 to 85 %(with no condensation)		
Ambient environment	No corrosive gases		
Material	Acrylic	Acrlic, Polarizing sheet	SPCC
Weight	FZ-LT-DF50DR/PL50DR:Approx. 10g FZ-LT-AD50DR:Approx. 80g FZ-LT-DF31DR/PL31DR:Approx. 5g FZ-LT-AD31DR:Approx. 50g		

■Accessories

Diffusion board FZ-LT-DF□□DR

- Instruction sheet(this sheet)・・・1
- Screw for diffusion board installation M2×2・・・4
- Screw for diffusion board and polarizing plate installation M2×3.5・・・4

Polarizing plate FZ-LT-PL□□DR

- Instruction sheet(this sheet)・・・1
- Screw for polarizing plate installation M2×2・・・4

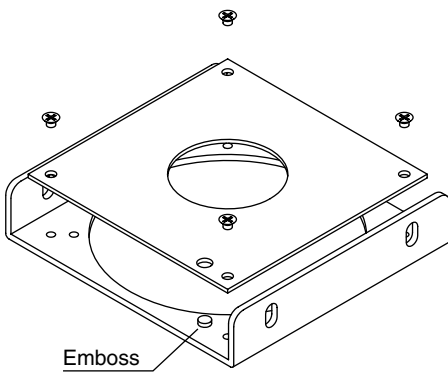
Adaptor FZ-LT-AD□□DR

- Screw for Adaptor installation M3×5・・・4

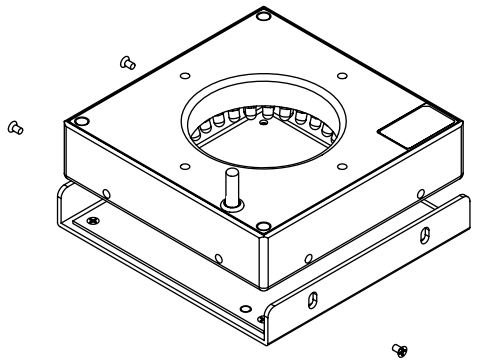
■Mount

1.Method of mounting diffusion board and polarizing platePolarizing plate

- ①The diffusion board or the polarizing plate is put on the adaptor. (Figure below)Tighten 4 screws (M2×2) securely. Use precision screwdriver securely.

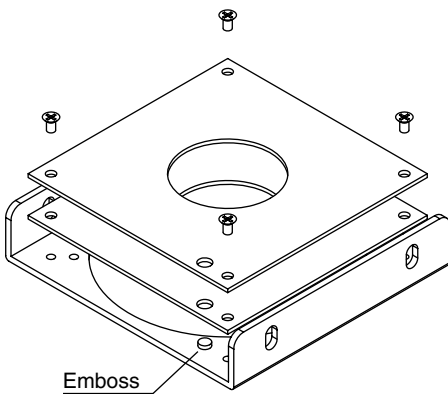


- ②Please tighten it with four screws (M3×5) on the side of the lighting.



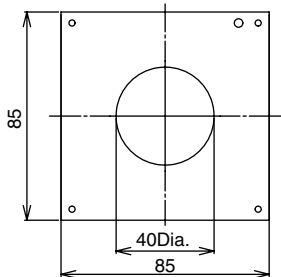
2. Method of using diffusion board and Polarizing plate(For camera) together.

- ①The diffusion board and the polarizing plate are put on the adaptor.(Figure below) Tighten 4 screws (M2×3.5) securely. Use precision screwdriver securely.
- ②Please tighten it with four screws (M3×5) on the side of the lighting.



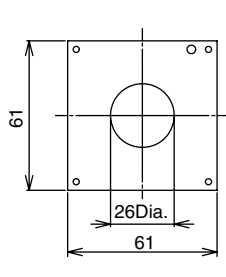
■Dimensions

FZ-LT-DF50DR
FZ-LT-PL50DR



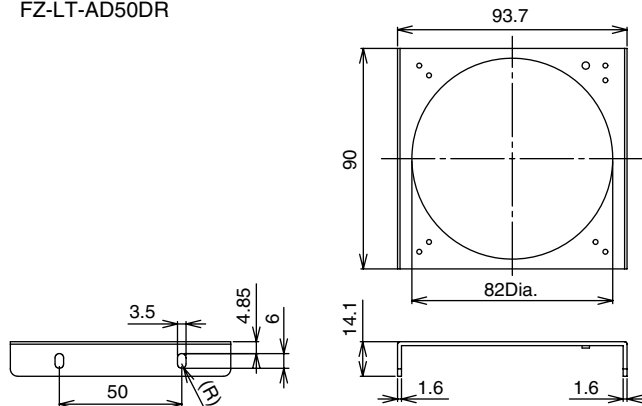
FZ-LT-DF50DR : t1
FZ-LT-PL50DR : t1.2

FZ-LT-DF31DR
FZ-LT-PL31DR

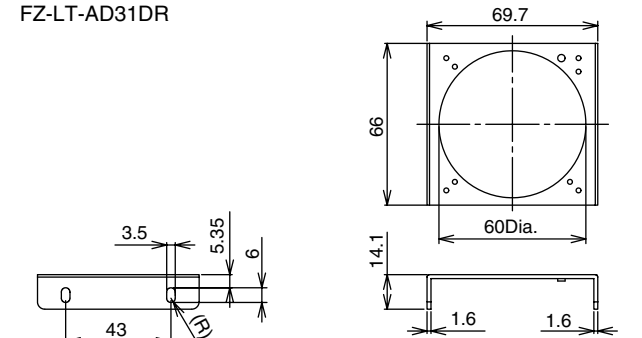


FZ-LT-DF31DR : t1
FZ-LT-PL31DR : t1.2

FZ-LT-AD50DR



FZ-LT-AD31DR



(UNIT:mm)

Suitability for Use

THE PRODUCTS CONTAINED IN THIS SHEET ARE NOT SAFETY RATED. THEY ARE NOT DESIGNED OR RATED FOR ENSURING SAFETY OF PERSONS, AND SHOULD NOT BE RELIED UPON AS A SAFETY COMPONENT OR PROTECTIVE DEVICE FOR SUCH PURPOSES. Please refer to separate catalogs for OMRON's safety rated products.

OMRON shall not be responsible for conformity with any standards, codes, or regulations that apply to the combination of the products in the customer's application or use of the product.

Take all necessary steps to determine the suitability of the product for the systems, machines, and equipment with which it will be used. Know and observe all prohibitions of use applicable to this product.

NEVER USE THE PRODUCTS FOR AN APPLICATION INVOLVING SERIOUS RISK TO LIFE OR PROPERTY WITHOUT ENSURING THAT THE SYSTEM AS A WHOLE HAS BEEN DESIGNED TO ADDRESS THE RISKS, AND THAT THE OMRON PRODUCT IS PROPERLY RATED AND INSTALLED FOR THE INTENDED USE WITHIN THE OVERALL EQUIPMENT OR SYSTEM.

See also Product catalog for Warranty and Limitation of Liability.

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